

MATHEMATICS

By the end of grade four, students develop an understanding and fluency with multi-digit multiplication, and dividing to find quotients involving multi-digit dividends. They will understand fraction equivalence and operations with fractions. They describe, analyze, compare, and classify two-dimensional shapes.

Operations and Algebraic Thinking

- Use the four operations with whole numbers to solve problems.
- Gain familiarity with factors and multiples.
- Generate and analyze problems. .

Number and Operations in Base Ten

- Generalize place value understanding for multi-digit whole numbers
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

Number and Operations Fractions

- Extend understanding of fraction equivalence and ordering.
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Understand decimal notation for fractions, and compare decimal fractions.

Measurement and Data

- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- Represent and interpret data.

- Geometric measurement: understand concepts of angle and measure angles.

Geometry

- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.

SCIENCE

Students know that:

Physical Sciences

- Electricity and magnetism are related effects that have many useful applications in everyday life.

Life Sciences

- All organisms need energy and matter to live and grow.
- Living organisms depend on one another and on their environment for survival.

Earth Sciences

- The properties of rocks and minerals reflect the process that formed them.
- Waves, wind, water, and ice shape and reshape Earth's land surface.

Investigation and Experimentation

- Scientific progress is made by asking meaningful questions and conducting careful investigations. To understand this concept and to address the content in the other three strands, students should develop their own questions and perform investigations.

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GRADE FOUR

*The
California
Standards
for
Grade Four*

CALIFORNIA
DEPARTMENT
OF EDUCATION

F O R N I

Dear Parent/Guardian,

This standards overview provides you With information of what children learn in first grade for each subject. Your understanding of the Common Core and content standards allows you to help your child with school work, homework, and to frame your questions for parent-teacher conferences. Also, this information can guide your selection of reading and writing materials for the home, and shape your visits to libraries, museums, or other places of interests.

GRADE FOUR

ENGLISH-LANGUAGE ARTS

Reading Standards for Literature and Informational Text

Students will:

- refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.
- determine a theme of a story, drama, or poem from details in the text; summarize the text.
- describe in depth a character, setting, or event in a story or drama, drawing on specific details in the text.
- determine the meaning of words and phrases as they are used in a text including those that allude to significant characters found in mythology.
- compare and contrast the point of view from which different stories are narrated, including the difference between first- and third person narrations.

- determine the main idea of a text and explain how it is supported by key details.
- describe the overall structure of events, ideas, concepts, or information in a text or part of a text.

Foundational Skills

Students will:

- use combined knowledge of all letter-sound correspondences, syllabication patterns, and morphology to read accurately unfamiliar multisyllabic words in context and out of context.
- read on-level prose and poetry orally with accuracy, appropriate rate, and expression, on successive readings.
- use context to confirm or self-correct word recognition and understanding, rereading as necessary.

Writing

- Students will write narratives, informative/explanatory, and opinion pieces of writing in which students will develop a topic with facts, definitions, descriptive details, and quotations. They will link words and phrases to connect ideas, and use dialogue to describe experiences or events.

Listening and Speaking

Students will:

- come to discussions prepared, having read or studied required material; explicitly draw on that preparation and other information known about the topic to explore ideas under discussion.

- review the key ideas expressed and explain their own ideas and understanding.
- pose and respond to specific questions to clarify or follow up on information, and make comments that contribute to the discussion and link to the remarks of others.
- plan and deliver a narrative presentation.

Language

Students will:

- use interrogative, relative pronouns and relative adverbs.
- form and use the progressive verb tenses.
- produce complete sentences, recognizing and correcting inappropriate fragments and run-ons.
- write fluidly and legibly in cursive or joined italics.
- use commas and quotation marks to mark direct speech and quotations from a text.
- use a comma before a coordinating conjunction in a compound sentence.
- Use context as a clue to the meaning of a word or phrase.
- use common, grade-appropriate Greek and Latin affixes and roots as clues to the meaning of a word.
- explain the meaning of simple similes and metaphors in context.

HISTORY-SOCIAL SCIENCE

Students learn the story of their home state, unique in American history in terms of its vast and varied geography, its many waves of immigration beginning with pre-Columbian societies, its continuous diversity, economic energy, and rapid growth.

In addition to the specific treatment of milestones in California history, students examine the state in the context of the rest of the nation, with an emphasis on the U.S. Constitution and the relationship between state and federal government.

Students will:

- demonstrate an understanding of the physical and human geographic features that define places and regions in California.
- describe the social, political, cultural and economic life and interactions among people of California from the pre-Columbian societies to the Spanish mission and Mexican rancho periods.
- explain the economic, social, and political life of California from the establishment of the Bear Flag Republic through the Mexican-American War, the Gold Rush and California statehood.
- explain how California became an agricultural and industrial power, tracing the transformation of the California economy and its political and cultural development since the 1850's.
- understand the structures, functions, and powers of the local, state, and federal governments as described in the U.S. Constitution.

